

Product datasheet for **MG205616**

Chia (BC011134) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Chia (BC011134) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Chia
Synonyms:	YNL, AMCase
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG205616 representing BC011134 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTTTCCACTTCTCAGAACC GCCAGACCTTCATTACCTCAGTCATCAAATTTCTGCGTCAGTATGGGT
TTGATGGACTGGACCTGGACTGGGAATACCCAGGCTCACGTGGGAGCCCTCCTCAGGACAAGCATCTCTT
CACTGTCCTGGTGAAGGAAATGCGTGAAGCTTTT GAGCAGGAGGCTATTGAGAGCAACAGGCCAGACTG
ATGGTTACTGCTGCTGTAGCTGGTGGGATTTCCAACATCCAGGCTGGCTATGAGATCCCTGAACCTTTCTA
AGTACCTGGATTTTCATCCATGTCATGACATATGACCTCCATGGCTCCTGGGAGGGCTACACTGGGGAGAA
TAGTCCTCTTTACAAATACCCTACTGAGACTGGTAGCAATGCCTACCTCAATGTGGATTATGTCATGAAC
TATTGGAAGAACAATGGAGCCCCAGCTGAGAAGCTCATTGTTGGATTCCCAGAGTATGGACACACCTTCA
TCCTGAGAAACCCCTCTGATAATGGAATTGGTGCCCTACCTCTGGTGATGGCCCTGCTGGGCCCTATAC
CAGACAGGCTGGGTTCTGGGCCTACTATGAGATTTGCACCTTTCTGAGAAGTGGAGCCACTGAGGCTCGG
GATGCCTCCCAAGAAGTGCCCTATGCCTATAAGGCCAACGAGTGGCTTGCTATGACAATATCAAGAGCT
TCAGTGTTAAGGCTCAGTGGCTTAAGCAGAACAATTTGGAGGTGCCATGATCTGGGCCATTGACCTTGA
TGACTTCACTGGCTCTTTCTGTGATCAGGAAAAATTTCTCTGACTTCTACTTTGAACAAAGCCCTTGGC
ATATCCACTGAAGTTGCACAGCTCCTGACGTGCCTCCGAGCCAGTACTCCTCCAGGAAGTGGGA
GTGGGGGTGGAAGCTCCGGAGGAAGCTCTGGAGGCAAGTGGATTCTGTGCCGACAAAGCAGATGGCCCTCA
CCCTGTGGCAGATGACAGAAATGCTTTTGGCAGTGCATCAATGGAATCACATACCAGCAGCATTGTCAA
GCAGGGCTTGTGTTTGTATACCAGCTGTAATTGCTGCAACTGGCCA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG205616 representing BC011134
 Red=Cloning site Green=Tags(s)

MVSTSQNRQTFITSVIKFLRQYGF DGLDL DWEYPGSRGSPQDKHLFTVLVKEMREAFEQEAIENRPRL
 MVTA AVAGGISNIQAGYEIPELSKYLDFIHVMTYDLHGSWEGYTGENSPLYKYPTETGSNAYLNVDYVMN
 YWKNNGAPAEKLI VGFPEYGH TFI LRNP SDNGIGAPTSGDGPAGPYTRQAGFWAYYEICTFLRSGATEVW
 DASQEVPIYAYKAN EWLGYDNIKFSVKAQWLKQNNFGGAMIWAIDLDDFTGSFCDQGKFLPTSTLNKALG
 ISTE GCTAPDVPSEPV TTPPGSGSGGSSGGSSGGSGFCADKADGLYPVADDRNAFWQCINGITYQQHCQ
 AGLVFD TSCNCCNWP

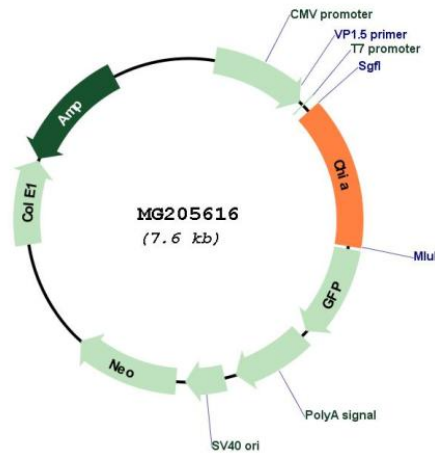
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: BC011134

ORF Size:	1097 bp
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	<ol style="list-style-type: none">1. Centrifuge at 5,000xg for 5min.2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.3. Close the tube and incubate for 10 minutes at room temperature.4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	BC011134 , AAH11134
RefSeq Size:	1538 bp
RefSeq ORF:	1097 bp
Locus ID:	81600
Cytogenetics:	3 F2.2
Gene Summary:	Degrades chitin and chitotriose. May participate in the defense against nematodes, fungi and other pathogens. Plays a role in T-helper cell type 2 (Th2) immune response. Contributes to the response to IL-13 and inflammation in response to IL-13. Stimulates chemokine production by pulmonary epithelial cells. Protects lung epithelial cells against apoptosis and promotes phosphorylation of AKT1. Its function in the inflammatory response and in protecting cells against apoptosis is inhibited by allosamidin, suggesting that the function of this protein depends on carbohydrate binding. Presence in saliva and gastric juice suggests a function as a digestive enzyme.[UniProtKB/Swiss-Prot Function]